



Network Access Control

***Quick Installation Guide
Version 3.1***

WMS-208



1. Introduction

1.1 Preface

PheeNet WMS-208 is a Network Access Controller, specially designed for wired and wireless data network environments in small to middle scaled businesses and hotspots. This Quick Installation Guide provides instructions and reference material for getting started with the PheeNet WMS-208. This guide will also show how to connect PheeNet WMS-208 to other network equipments.

1.2 Package Contents

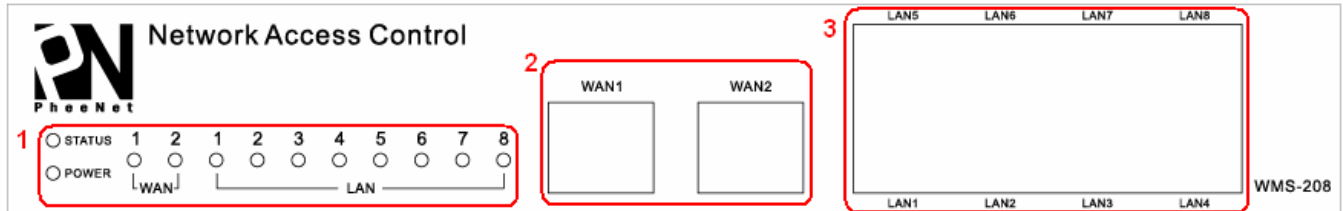
Open the package carefully, and make sure that none of the items listed below are missing.

- PheeNet WMS-208 x 1
- Quick Installation Guide (QIG) x 1
- CD-ROM (with User' s Manual and QIG) x 1
- DC 12V Power Adaptor x 1
- Ethernet Cable x 1
- Console Cable x 1

<p>Attention: <i>It is highly recommended to use all the supplies in the package instead of substituting any components by other suppliers to guarantee best performance.</i></p>
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1.3 Hardware Introduction

Front Panel



- ? **LED:** There are four kinds of LED, **Power**, **Status**, **WAN** and **LAN**, to indicate different status of the system.
 - **Power:** LED ON indicates power on.
 - **Status:** While system power is on, status OFF indicates BIOS is running; BLINKING indicates the OS is running, and ON indicates system is ready.
 - **WAN:** LED ON indicates connection to the WAN port.
 - **LAN:** LED ON indicates connection to the LAN port.
- ? **WAN1/WAN2:** Two WAN ports (10 Base-T / 100Base-TX RJ-45) are available on the system.
- ? **LAN1~LAN8:** Client machines connect to WMS-208 via LAN ports (10 Base-T / 100Base-TX RJ-45).

Note: By Default, all LAN ports are set with Port-based Default Service Zone; for Service Zone configuration, please refer to section 4.1.7, User's Manual.

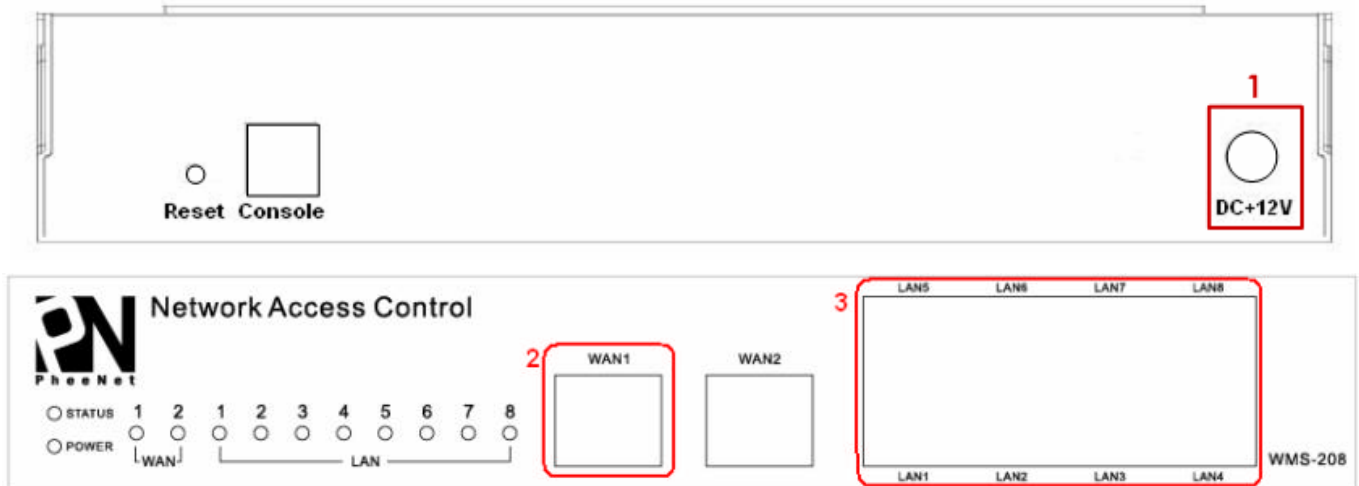
Rear Panel



- ? **Reset:** Press this button to restart the system.
- ? **Console:** The system can be configured via a serial console port. The administrator can use a terminal emulation program such as Microsoft's HyperTerminal to login to the configuration console interface to change admin password or monitor system status, etc.
- ? **DC+12V:** The power adapter attaches here.

1.4 Hardware Installation

Please follow the following steps to install PheeNet WMS-208:

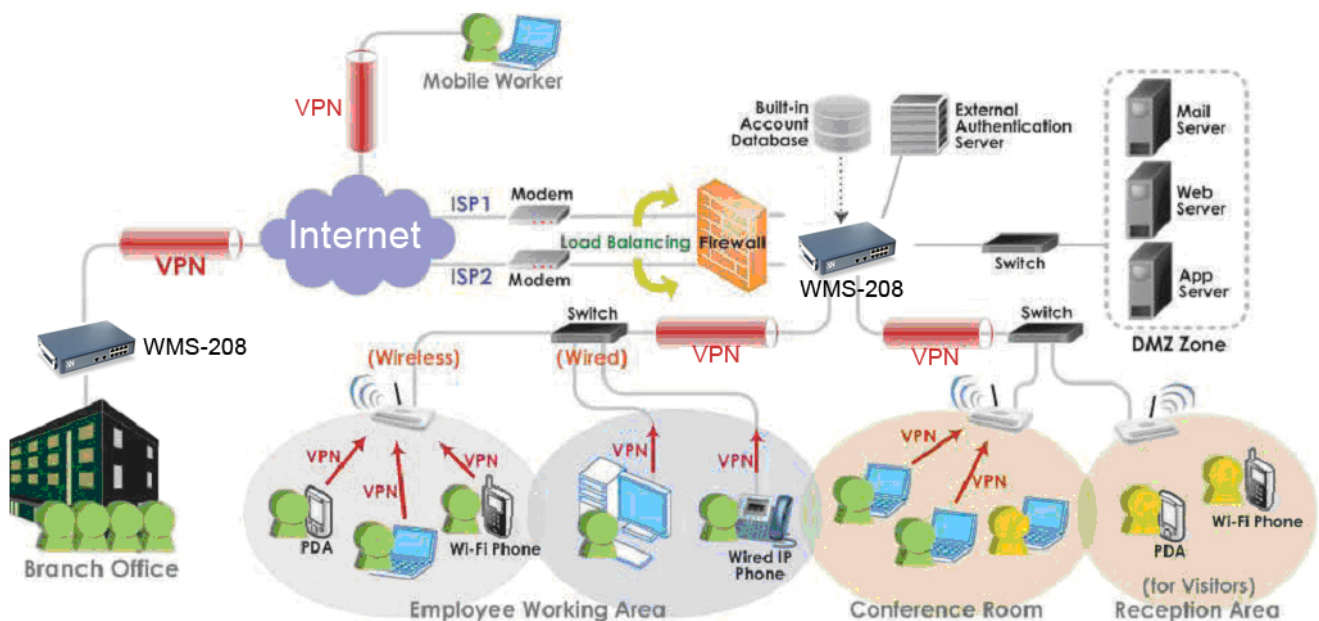


1. Connect the power adapter to the power socket on the rear panel. The Power LED should be on to indicate a proper connection.
2. Connect an Ethernet cable to the WAN1 Port on the front panel. Connect the other end of the cable to an external networking device such as an ADSL modem, a cable modem, a switch, or a hub.
3. Connect an Ethernet cable to one of the LAN1~LAN8 Ports on the front panel. Connect the other end of the Ethernet cable to an administrator's PC or a client PC, AP, or switch in managed network. The LED of the connected port should be on to indicate a proper connection.

Attention:

PheeNet WMS-208 supports Auto Sensing MDI/MDIX. You may use either straight through or cross-over cable to connect the Ethernet Port.

WMS-208 is capable of managing user authentication, authorization and accounting. The user account information is stored in the local database or a specified external database server. Featured with user authentication and integrated with external payment gateway, WMS-208 allows users to easily pay the fee and enjoy the Internet service using credit cards through Authorize.net or PayPal. With centralized AP management feature, the administrator does not need to worry about how to manage multiple wireless access point devices. Furthermore, WMS-208 introduces the concept of Service Zones - multiple virtual networks, each with its own definable network policy. This is very useful for hotspot owners seeking to provide different customers or staff with different levels of network services. The following diagram is an example of WMS-208 set to manage the Internet and network access services at a hotspot venue.



An example of typical SMB network deployment

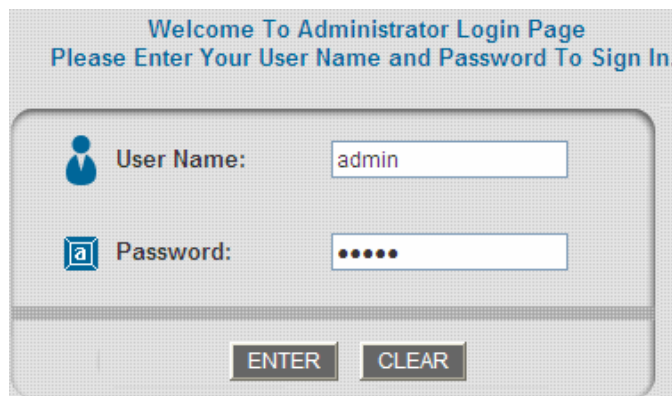
2.2 Web Interface Configuration

PheeNet WMS-208 supports web-based configuration. Upon the completion of hardware installation, PheeNet WMS-208 can be configured via web browsers with JavaScript enabled such as Internet Explorer version 6.0 and above or Firefox. Please follow the following steps to complete the quick configuration.

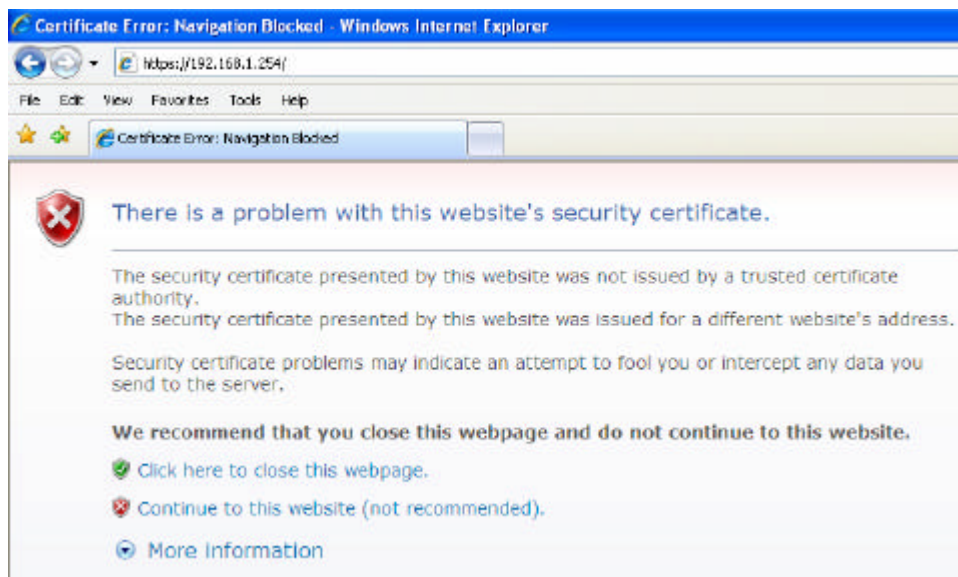
1. To access the web management interface, connect a PC to one of the LAN1~8 ports, and then launch a browser. **Make sure you have set DHCP in TCP/IP of your PC to get an IP address dynamically.**
2. Next, enter the gateway IP address of WMS-208 at the address field. The default gateway IP address is “**https://192.168.1.254/**” (“https” is used for a secured connection).



3. The administrator login page will appear. Enter “**admin**”, the default username, and “**admin**”, the default password, in the User Name and Password fields. Click **Enter** to log in.



4. After a successful login, a “Welcome to System Administration” page will appear on the screen. For the first time, if the WMS-208 is not using a **trusted SSL certificate**, there will be a “**Certificate Error**”, because the browser treats WMS-208 as an illegal website. Please press “**Continue to this website**” to continue. The default user login page will then appear in the browser. *For more information, please see 4.2.5 Additional Configuration, User’s Manual.*



Caution: If you can't get the login screen, the reasons may be:

- (1) The PC is set incorrectly so that the PC can't obtain the IP address automatically from the LAN port;
- (2) The IP address and the default gateway are not under the same network segment. Please use default IP address such as 192.168.1.xx in your network and then try it again. For the configuration on PC, please refer to **Appendix F, User's Manual**

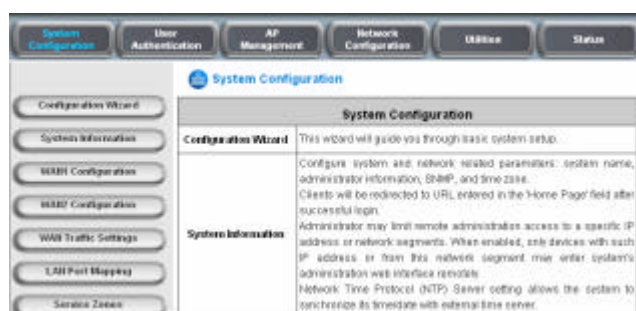
2.3 Configuration Wizard

1. After a successful login to PheeNet WMS-208, a web management interface with a welcome message will appear.



Note: To logout, simply click the **Logout** icon on the upper right corner of the interface to return to the login screen.

2. To quickly configure WMS-208 by using the **Configuration Wizard**, click **System Configuration** from the top menu to go to the **System Configuration** page.



3. Then, click **Configuration Wizard** on the left menu.



4. Click the **Run Wizard** button to begin the **Configuration Wizard**.
5. The **Configuration Wizard** will appear in a pop-up browser window.

6. Click **Next** to begin.

Configuration Wizard

Welcome to the Setup Wizard. The wizard will guide you through these 6 quick steps. Begin by clicking on Next.

Step 1. Change Admin's Password

Step 2. Choose System's Time Zone

Step 3. Set System Information

Step 4. Select the Connection Type for WAN Port

Step 5. Add Local User Account (Optional)

Step 6. Save and Restart WMS-208

Next

Exit

Step 1. Change Admin's Password

- Enter a **New Password** for the admin account and retype it in the **Verify Password** field (20-character maximum and no spaces).
- Click **Next** to continue.

Step 1. Change Admin's Password

You may change the Admin's account password by entering a new password. Click Next to continue.

New Password:

Verify Password:

Back

Next

Exit

Note: During every step of the wizard, if you wish to go back to modify the settings, please click the **Back** button to go back to the previous step.

Step 2. Choose System's Time Zone

- Select a proper time zone from the drop-down list box.
- Click **Next** to continue.

Step 2. Choose System's Time Zone

Select the appropriate time zone for the system. Click **Next** to continue.

(GMT+08:00)Taipei

Back

Next

Exit

Step 3: Set System Information

- **Home Page:** Enter the URL that users should be initially directed to when successfully authenticated to the network.
- **NTP Server:** Enter the URL of the external time server for PhееNet WMS-208 time synchronization or use the default setting.
- **DNS Server:** Enter the IP Address of a DNS Server provided by your ISP (Internet Service Provider). Contact the ISP if the DNS IP Address is unknown.
- Click **Next** to continue.

Step 3. Set System Information

Enter System Information. Click **Next** to continue.

Home Page:

(e.g. http://www.phenet.com/)

NTP Server:

(e.g. tock.usno.navy.mil)

DNS Server:

Back

Next

Exit

Step 4. Select Connection Type for WAN1 Port

- There are three types of WAN connections to be selected from: **Static IP Address**, **Dynamic IP Address** and **PPPoE Client**. Select a proper Internet connection type. Below depicts an example of using Static IP connection.
- Click **Next** to continue.

Step 4. Select the Connection Type for WAN Port

Select the connection type for WAN port. Click **Next** to continue.

- ☒ **Static IP Address** Select it to set static IP address.
- ☐ **Dynamic IP Address** Select it to obtain an IP address automatically. (For most cable modem users.)
- ☐ **PPPoE Client** Enter the PPPoE Client's Username and Password. (For most DSL users.)

Back

Next

Exit

Step 4 (Cont). Set WAN1 Port's Static IP Address

- Enter the **IP Address**, **Subnet Mask** and **Default Gateway** provided by your ISP.
- Click **Next** to continue.
- For **Dynamic IP Address** or **PPPoE Client**, follow the instructions showing on the screen.

Step 4 (Cont). Set WAN Port's Static IP Address

Click **Next** to continue.

IP Address:

Subnet Mask:

Default Gateway:

Back

Next

Exit

Step 5. Add Local User Account (Optional)

- A new user can be added to the Local User database. To add a user here, enter the **Username** (e.g. test), **Password** (e.g. test), **MAC Address** (optional, to specify the valid MAC address of this user) and assign an **Applied Group** to this particular user (or use the default **None**).
- More users can be added by clicking the **Add Now** button.
- Click **Next** to continue.

Step 5. Add Local User Account (Optional)

Administrator can choose to add local user accounts for a quick trial.

Username:

Password:

MAC Address: (XXXXXXXXXX)

Applied Group: None ▼ User 'test' has been added!

Back

Next

Exit

Step 6. Save and Restart PheeNet WMS-208

- Click **Restart** to save current settings and restart PheeNet WMS-208. The Setup Wizard is now complete.

Step 6. Save and Restart WMS-208

The Setup Wizard has completed. Click on Back to review or modify settings. Click Restart to save the settings and restart the system to have the current settings take effect.

Back

Restart

Exit

- While restarting WMS-208, a **“Restarting now.”** message will appear on the screen.

Setup Wizard

Restarting now. Please wait for a moment...

Please do NOT interrupt PheeNet WMS-208 restart process until the **Configuration Wizard** pop-up window has disappeared – which indicates the restart process has been completed.

Now, the basic configuration is completed.

If all the steps are done properly, PheeNet WMS-208 has been connected to the managed network.

2.4 User Login

After completing the configuration wizard, the user account generated in Step 5 can be used to login to the system to verify whether the configuration is done properly.

First, connect a client device (e.g. laptop, PC) to one of the LAN1~LAN8 Ports. If eliminating the need for client IP configuration is desired, the administrator can enable the **“IP PnP”** function to support both static and dynamic IP. Otherwise, the client device must be set to use **DHCP** in TCP/IP to obtain an IP address automatically.

1. Open an Internet browser on a client device and access any URL, the default **User Login Page** will be displayed.
2. Enter a username and password previously created in the Local User account database (e.g. **“test@local”** for **Username** and **“test”** for **Password**) or from an On-demand User account. Check the **Remember Me** box to store the username and password on the current

computer in order to automatically login to the system at next login. Then, click the **Submit** button.

The **Remaining** button on the **User Login Page** is for on-demand users only, where they can check their Remaining Usage time.

A screenshot of the 'User Login Page' from PheeNet WMS-208. The page has a blue header with the title 'User Login Page'. Below the header, it says 'Welcome To User Login Page.' and 'Please Enter Your User Name and Password To Sign In .'. There are two input fields: 'User Name:' with the value 'test@local' and 'Password:' with the value '****'. Below the fields are three buttons: 'Submit', 'Clear', and 'Remaining'. At the bottom, there is a checkbox labeled 'Remember Me' which is checked.

Attention: To provide temporary users with free or paid wireless Internet access, the administrator can enable **On-demand User** authentication to create On-demand User accounts. Please refer to **4.2.1.6 Authentication Method – On-demand User, User’s Manual**.

2.5 Service Zone & AP

Management

PheeNet WMS-208 has introduced an important new concept called “**Service Zone**”. For how to set up Service Zones, please refer to the User’s Manual, **Appendix C. Service Zone Deployment Example**.

PheeNet WMS-208 can centrally manage up to 12 access points (APs). For how to set up the “**AP Management**” feature, please refer to the “**AP Management**” section of the User’s Manual.

For further configuration and information, please refer to the User’s Manual.

3. Congratulation!

The **Login Successful** page appearing means PheeNet WMS-208 has been installed and configured successfully. Now, you are connected to the network and Internet!

P/N: V31220080529

